WHAT IS CLAIMED IS

1. A reversible heat-sensitive paper comprising a reversible heat-sensitive recording layer that colors and discolors its surface by controlling the changing speed of temperature and/or keeping temperature, and the reversible heat-sensitive recording layer being kept to a solid colored state.

2. The reversible heat-sensitive recording layer comprises an electron donative dyestuff precursor and a reversible developer that colors and discolors the electron donative precursor, and the reversible heat-sensitive recording layer being heated to a fused state, in advance, and then quickly cooled to a solid colored state.

3. Methods of writing information on a reversible heat-sensitive paper, in which

a reversible heat-sensitive paper comprising a reversible heat-sensitive layer that comprises an electron donative dyestuff precursor and a reversible developer that colors and discolors the electron donative precursor is prepared by heating, in advance, to a molten state and then quickly cooled to a solid colored state, and a part of the reversible heat-sensitive recording layer is heated to a color-erasing temperature range that is lower than the melting temperature of the reversible heat sensitive recording layer, during operation, and the part is discolored and stores the information.

4. Meth ϕ ds of writing information on a reversible

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heat-sensitive paper, in which

the reversible heat sensitive paper comprising a reversible heat-sensitive recording layer that comprises an electron donative precursor and a reversible developer that colors and discolors the electron donative precursor, formed on a supporting base, is irradiated with light and an irradiated part is heated to heat the reversible heat-sensitive recording layer to a molten state, then the part is quickly cooled, and a colored portion is irradiated with light partially in superimposition, and the doubled irradiated portion is discolored by maintaining the portion in a color-erasing temperature range that is lower than the melting temperature of the reversible heat-sensitive recording layer, for a predetermined time, thereby, the portion is discolored.

5. Methods of writing information onto a reversible heat sensitive paper, on which an exposing mask is positioned between a light source and the reversible heat sensitive paper, light is transmitted through the mask and is focused on the reversible heat-sensitive paper, and two-dimensional information is written.

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